

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2018 Levee Inspection Results

Tehama County Flood Control and Water Conservation District

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2018 Levee Inspection Results

Tehama County Flood Control and Water Conservation District

Waterway			Bank	Unit Miles
Unit No. 01 Deer Creek			Left	4.22
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/4/2018 - 4/4/2018			
DWR Inspector	Bob Duffey			
Accompanied By	Ryan Teubert Tehama County			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Deer Creek	Left	4.22	04/04/2018 04/04/2018	Bob Duffey

LM Start		Rating **	A	Issue No.	12
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals				
DWR ID	DWR_NA0019_01_s _ 2013_12				
Comment Code					
Inspector Comment					
The LMA has O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	13
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment				
DWR ID	DWR_NA0019_01_s _ 2013_13				
Comment Code					
Inspector Comment					
The LMA has adequate flood fight supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	14
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training				
DWR ID	DWR_NA0019_01_s _ 2013_14				
Comment Code					
Inspector Comment					
The LMA completed flood fight training in 2015.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Deer Creek	Left	4.22	04/04/2018 04/04/2018	Bob Duffey

LM Start	0.00	Rating **	U	Issue No.	41
LM End	0.65	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.973077 °	39.971722 °
				-121.980344 °	-121.991869 °
DWR ID	DWR_NA0019_01_s _ 2016_41				
Comment Code					
DT : Ditch					
Inspector Comment					
Concrete-lined ditch on landside.					

Photo 1 of 1 : SP_2018_NA0019_78_41_20180305_00015.jpg



View of the concrete-lined ditch along landside.

LM Start	0.01	Rating **	M	Issue No.	17
LM End	0.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.973111 °	39.973111 °
				-121.980466 °	-121.980466 °
DWR ID	DWR_NA0019_01_s _ 2013_17				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0019_78_17_20180305_00005.jpg



View of the erosion along the landside slope.

LM Start	0.02	Rating **	U	Issue No.	275
LM End	0.02	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.973128 °	39.973128 °
				-121.980734 °	-121.980734 °
DWR ID	DWR_NA0019_01_s _ 2014_275				
Comment Code					
PI : Pipe					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0019_78_275_20180305_00023.jpg



View of the irrigation pipe along the waterside slope.

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Deer Creek	Left	4.22	04/04/2018 04/04/2018	Bob Duffey

LM Start	0.17	Rating **	M	Issue No.	277
LM End	0.17	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.973302 °	39.973302 °
				-121.983538 °	-121.983538 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39840					
DS_ID:24684					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: No permit identified for this crossing.					
FIELD_STRUCT_DESC: 36-inch reinforced concrete irrigation pipe					
through the levee, 0.5 feet below the crown. Concrete canal and					
distribution structure on the landside (LS) shoulder.					
FS Date: 10/2/2013					

Photo 1 of 2 : UCIP_SP_2018_39840_39060.jpg



Outlet covered by tree trimmings.

LM Start	0.17	Rating **	M	Issue No.	277 (cont)
LM End	0.17	Issue Type +	En	Location *	

Photo 2 of 2 : UCIP_SP_2018_39840_39059.jpg



Pipe visible at WS outlet.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Deer Creek	Left	4.22	04/04/2018 04/04/2018	Bob Duffey

LM Start	0.17	Rating **	M	Issue No.	278	
LM End	0.17	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.973285 °	39.973285 °	
				-121.983531 °	-121.983531 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39838						
DS_ID:24685						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: No permit identified for this crossing.						
FIELD_STRUCT_DESC: 24-inch reinforced concrete irrigation pipe						
through the levee, 2 feet below the crown. Concrete canal and						
distribution structure on the landside (LS) shoulder. Concrete U-shaped						
headwall and flap gate on the waterside (WS) toe.						
FS Date: 10/2/2013						

Photo 1 of 1 : UCIP_SP_2018_39838_39058.jpg



Concrete U-shaped headwall and flapgate at WS toe.

LM Start	0.41	Rating **	M	Issue No.	18
LM End	0.41	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.972560 °	39.972560 °
				-121.987759 °	-121.987759 °
DWR ID	DWR_NA0019_01_s_2013_18				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0019_78_18_20180305_00006.jpg



View of the erosion along the landside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
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Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Deer Creek	Left	4.22	04/04/2018 04/04/2018	Bob Duffey

LM Start	0.45	Rating **	M	Issue No.	276
LM End	0.45	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.972377 °	39.972377 °
				-121.988559 °	-121.988559 °
DWR ID	DWR_NA0019_01_s_2014_276				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0019_78_276_20180305_00024.jpg



View of the erosion along the waterside slope.

LM Start	0.46	Rating **	M	Issue No.	19
LM End	0.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.972339 °	39.972339 °
				-121.988763 °	-121.988763 °
DWR ID	DWR_NA0019_01_s_2013_19				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0019_78_19_20180305_00007.jpg



View of the erosion along the landside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Deer Creek	Left	4.22	04/04/2018 04/04/2018	Bob Duffey

LM Start	0.49	Rating **	M	Issue No.	279
LM End	0.49	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.972280 °	39.972280 °
				-121.989227 °	-121.989227 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39839 DS_ID:24686 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for crossing. FIELD_STRUCT_DESC: 20-inch reinforced concrete irrigation pipe through the levee, 2 feet below the crown. Concrete canal and distribution structure with slat boards on the landside (LS) shoulder. FS Date: 10/2/2013					

Photo 1 of 3 : UCIP_SP_2018_39839_39063.jpg



Concrete canal/distribution box on LS shoulder.

LM Start	0.49	Rating **	M	Issue No.	279 (cont)
LM End	0.49	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_39839_39062.jpg



Concrete headwall at canal on LS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Deer Creek	Left	4.22	04/04/2018 04/04/2018	Bob Duffey

LM Start	0.49	Rating **	M	Issue No.	279 (cont)	
LM End	0.49	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.972280 °	39.972280 °	
				-121.989227 °	-121.989227 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39839 DS_ID:24686 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for crossing. FIELD_STRUCT_DESC: 20-inch reinforced concrete irrigation pipe through the levee, 2 feet below the crown. Concrete canal and distribution structure with slat boards on the landside (LS) shoulder. FS Date: 10/2/2013						

Photo 3 of 3 : UCIP_SP_2018_39839_39061.jpg



Pipe visible at outlet on WS toe.

LM Start	0.76	Rating **	A	Issue No.	50
LM End	0.76	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.971605 °	39.971605 °
				-121.994137 °	-121.994137 °
DWR ID	DWR_NA0019_01_s_2018_50				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The vegetation was removed from both slopes.					

Photo 1 of 1 : SP_2018_NA0019_78_50_20180405_00067.jpg



View of no vegetation on both slopes.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Deer Creek	Left	4.22	04/04/2018 04/04/2018	Bob Duffey

LM Start	1.47	Rating **	M	Issue No.	21
LM End	1.47	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.969702 °	39.969702 °
				-122.006975 °	-122.006975 °
DWR ID	DWR_NA0019_01_f_2013_21				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Keep livestock off levee and repair damage.					

Photo 1 of 1 : SP_2018_NA0019_78_21_20180305_00009.jpg



View of the erosion caused by livestock on both slope of the levee.

LM Start	1.55	Rating **	A/W	Issue No.	42
LM End	1.58	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.969193 °	39.969052 °
				-122.008458 °	-122.008920 °
DWR ID	DWR_NA0019_01_s_2017_42				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repair the erosion along the water side toe.					

Photo 1 of 1 : SP_2018_NA0019_78_42_20180305_00016.jpg



View of the erosion along the waterside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Deer Creek	Left	4.22	04/04/2018 04/04/2018	Bob Duffey

LM Start	1.56	Rating **	A/W	Issue No.	49
LM End		Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		39.969250 °		
			-122.008681 °		
DWR ID	DWR_NA0019_01_s_2018_49				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: Significant erosion on the waterside slope, 8-10 foot vertical bank for approximately 100-150'. Site ID No: 585 Site Designation: LMA-500 Repair Type: Erosion Rating: Serious Field Date: 9/6/2017 Notes: Photos from during the 2017 storm event are attached and cover all of the sites in this RD.					

No Photos

LM Start	1.66	Rating **	M	Issue No.	31
LM End	1.66	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.968670 °	39.968670 °	
			-122.010271 °	-122.010271 °	
DWR ID	DWR_NA0019_01_f_2016_31				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove prunings from the landside toe.					

Photo 1 of 1 : SP_2018_NA0019_78_31_20180305_00010.jpg



View of the prunings along the waterside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Deer Creek	Left	4.22	04/04/2018 04/04/2018	Bob Duffey

LM Start	1.67	Rating **	M	Issue No.	280 (cont)	
LM End	1.67	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.968642 °	39.968642 °	
				-122.010494 °	-122.010494 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51437 DS_ID:20770 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 12/05/2016 Sediment buildup inside pipe (see photo) and sediment buildup on WS blocking flap gate. Crossing has been downgraded from Urgent to Non-Urgent crossing was closed on both WS and LS. (O. Magana - DWR UCIP)10/02/2013 Flapgate blocked by soil buildup. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 24-inch steel drainage pipe through the levee, 1.5 feet below the crown. Flap gate on the waterside (WS) toe. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual Unit 509, March 1957, As-built drawings available 50-4-2394 (Station 185+40)]. FS Date: 12/5/2016						

Photo 3 of 3 : UCIP_SP_2018_51437_36920.jpg



Outlet on WS toe.

LM Start	1.79	Rating **	U	Issue No.	2
LM End	2.22	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.969443 °	39.966921 °
				-122.012261 °	-122.019469 °
DWR ID	DWR_NA0019_01_s_2012_2				
Comment Code					
DT : Ditch					
Inspector Comment					
Repair the cleaned out irrigation ditch along the landside toe.					

Photo 1 of 2 : SP_2018_NA0019_78_2_20180305_00001.jpg



View of the irrigation ditch along the landside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Deer Creek	Left	4.22	04/04/2018 04/04/2018	Bob Duffey

LM Start	1.79	Rating **	U	Issue No.	2 (cont)	
LM End	2.22	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			39.969443 °		39.966921 °
				-122.012261 °		-122.019469 °
DWR ID	DWR_NA0019_01_s_2012_2					
Comment Code						
DT : Ditch						
Inspector Comment						
Repair the cleaned out irrigation ditch along the landside toe.						

Photo 2 of 2 : SP_2018_NA0019_78_2_20180305_00002.jpg



View of an agricultural ditch along the levee toe.

LM Start	1.85	Rating **	M	Issue No.	32
LM End	1.85	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.969223 °	39.969223 °
				-122.013351 °	-122.013351 °
DWR ID	DWR_NA0019_01_f_2016_32				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Deer Creek	Left	4.22	04/04/2018 04/04/2018	Bob Duffey

LM Start	1.88	Rating **	M	Issue No.	281
LM End	1.88	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.969156 °	39.969156 °
				-122.013809 °	-122.013809 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:39837					
DS_ID:24690					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: No permit identified for this crossing.					
FIELD_STRUCT_DESC: 4-inch steel communications conduit through the levee, at an unknown depth. Junction box off the landside (LS) toe next to JP and roadway. Conduit visible on upstream side of bridge at Deer Creek crossing.					
FS Date: 10/2/2013					

Photo 1 of 3 : UCIP_SP_2018_39837_39067.jpg



Communication box off LS shoulder next to roadway.

LM Start	1.88	Rating **	M	Issue No.	281 (cont)
LM End	1.88	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_39837_39066.jpg



Communication box on WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Deer Creek	Left	4.22	04/04/2018 04/04/2018	Bob Duffey

LM Start	1.88	Rating **	M	Issue No.	281 (cont)	
LM End	1.88	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.969156 °	39.969156 °	
				-122.013809 °	-122.013809 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39837 DS_ID:24690 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this crossing. FIELD_STRUCT_DESC: 4-inch steel communications conduit through the levee, at an unknown depth. Junction box off the landside (LS) toe next to JP and roadway. Conduit visible on upstream side of bridge at Deer Creek crossing. FS Date: 10/2/2013						

Photo 3 of 3 : UCIP_SP_2018_39837_39065.jpg



Conduit visible on WS slope and at upstream side of bridge.

LM Start	1.89	Rating **	U	Issue No.	282	
LM End	1.89	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.969105 °	39.969105 °	
				-122.014028 °	-122.014028 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51438 DS_ID:20769 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 12/05/2016 same as last inspection. Crossing remains "Urgent" WS opened during flood season due to damaged flap gate. (O. Magana - DWR UCIP)10/02/2013 Flapgate missing or burried on WS toe. Pipe partially blocked by soil on WS toe. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 7 feet below the crown. Flap gate located on the waterside (WS) end. A 5-foot by 5-foot concrete control structure located on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual Unit 509, March 1957, As-built drawing no. 50-4-2394 (Station 176+10)]. FS Date: 12/5/2016						

Photo 1 of 3 : UCIP_SP_2018_51438_36925.jpg



Pipe on WS toe with flapgate hinges.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Deer Creek	Left	4.22	04/04/2018 04/04/2018	Bob Duffey

LM Start	1.89	Rating **	U	Issue No.	282 (cont)	
LM End	1.89	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.969105 °		39.969105 °
				-122.014028 °		-122.014028 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51438 DS_ID:20769 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 12/05/2016 same as last inspection. Crossing remains "Urgent" WS opened during flood season due to damaged flap gate. (O. Magana - DWR UCIP)10/02/2013 Flapgate missing or burried on WS toe. Pipe partially blocked by soil on WS toe. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 7 feet below the crown. Flap gate located on the waterside (WS) end. A 5-foot by 5-foot concrete control structure located on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual Unit 509, March 1957, As-built drawing no. 50-4-2394 (Station 176+10)]. FS Date: 12/5/2016						

LM Start	1.89	Rating **	U	Issue No.	282 (cont)
LM End	1.89	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2018_51438_36924.jpg



Outlet on WS toe.

Photo 3 of 3 : UCIP_SP_2018_51438_36923.jpg



Concrete control structure on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Deer Creek	Left	4.22	04/04/2018 04/04/2018	Bob Duffey

LM Start	2.53	Rating **	M	Issue No.	39
LM End	2.53	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.966675 °	39.966675 °
				-122.024988 °	-122.024988 °
DWR ID	DWR_NA0019_01_s_2017_39				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repair the erosion along the water side slope.					

Photo 1 of 1 : SP_2018_NA0019_78_39_20180305_00014.jpg



View of erosion along the waterside slope.

LM Start	2.55	Rating **	A/W	Issue No.	46
LM End	2.58	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			39.966661 °	39.966330 °
				-122.025369 °	-122.025850 °
DWR ID	DWR_NA0019_01_f _ 2017_46				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:176					
Site Designation:LMA-23					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:6/6/2017					
Notes: Problem area is not within the levee prism. The erosion exists near the crest.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Deer Creek	Left	4.22	04/04/2018 04/04/2018	Bob Duffey

LM Start	2.57	Rating **	M	Issue No.	283
LM End	2.57	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.966363 °	39.966363 °
				-122.025755 °	-122.025755 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:22823					
DS_ID:20877					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Headwall covered with soil. Needs to be cleared at both ends.					
FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee 5-feet below the crown. Calco automatic drainage gate.					
Originally included in O+M manual (1957). As-built drawings available 50-4-2394.					
FS Date: 10/2/2013					

Photo 1 of 1 : UCIP_SP_2018_22823_38941.jpg



Concrete headwall on LS toe.

LM Start	2.75	Rating **	A/W	Issue No.	45	
LM End	2.75	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2017 Storm Damage			39.964900 °		39.965030 °
				-122.029000 °		-122.028700 °
DWR ID	DWR_NA0019_01_f_2017_45					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:271						
Site Designation:LMA-72						
Repair Type: Erosion						
Rating:Serious						
Field Date:6/6/2017						
Notes:						

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Deer Creek	Left	4.22	04/04/2018 04/04/2018	Bob Duffey

LM Start	2.76	Rating **	A/W	Issue No.	43
LM End	2.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.964990 °	39.964763 °
				-122.028740 °	-122.029082 °
DWR ID	DWR_NA0019_01_s_2017_43				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repair the erosion along the water side slope.					

Photo 1 of 1 : SP_2018_NA0019_78_43_20180305_00017.jpg



View of erosion along waterside toe.

LM Start	2.86	Rating **	M	Issue No.	284
LM End	2.86	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.963938 °	39.963938 °
				-122.030128 °	-122.030128 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:22824					
DS_ID:20767					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe blocked by soil.					
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe					
through the levee, 6 feet below the crown. Flap gate on the waterside					
(WS) end. [Additional Reference(s): DWR Levee Log, 1992. USACE					
Sacramento O&M Manual 509, March 1957, (Assumed Station 137+50)					
Drawing No. 50-4-2394].					
FS Date: 10/2/2013					

Photo 1 of 2 : UCIP_SP_2018_22824_38946.jpg



Flapgate blocked by soil and debris.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Deer Creek	Left	4.22	04/04/2018 04/04/2018	Bob Duffey

LM Start	2.86	Rating **	M	Issue No.	284 (cont)	
LM End	2.86	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.963938 °	39.963938 °	
				-122.030128 °	-122.030128 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:22824						
DS_ID:20767						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Pipe blocked by soil.						
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe						
through the levee, 6 feet below the crown. Flap gate on the waterside						
(WS) end. [Additional Reference(s): DWR Levee Log, 1992. USACE						
Sacramento O&M Manual 509, March 1957, (Assumed Station 137+50)						
Drawing No. 50-4-2394].						
FS Date: 10/2/2013						

Photo 2 of 2 : UCIP_SP_2018_22824_38945.jpg



Flapgate blocked by soil and debris.

LM Start	2.86	Rating **	M	Issue No.	38
LM End	2.86	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.963928 °	39.963928 °
				-122.030120 °	-122.030120 °
DWR ID	DWR_NA0019_01_f_2014_38				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0019_78_38_20180305_00013.jpg



View of erosion from the cattle on both slopes.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Deer Creek	Left	4.22	04/04/2018 04/04/2018	Bob Duffey

LM Start	2.88	Rating **	M	Issue No.	20
LM End	2.88	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.963709 °	39.963709 °
				-122.030384 °	-122.030384 °
DWR ID	DWR_NA0019_01_s _ 2013_20				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0019_78_20_20180305_00008.jpg



View of the erosion along the landside slope.

LM Start	2.96	Rating **	M	Issue No.	1
LM End	2.98	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.962910 °	39.962724 °
				-122.031421 °	-122.031670 °
DWR ID	DWR_NA0019_01_s _ 2016_1				
Comment Code					
Inspector Comment					
2006 - Erosion along outer bank of a meandering bend that is getting close to the projection of the levee toe. Trees are leaning out into the channel and ready to fall. Whole bank in reach is actively eroding.					
2011 - New erosion pocket caused by an eddy. The Deer Creek Watershed Conservation Group is planning a reach-wide repair for Deer Creek. 2015: Site is part of the extended inventory, last inspected 2011.					
[2015 Site ID: DEC_2-4_L]					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Deer Creek	Left	4.22	04/04/2018 04/04/2018	Bob Duffey

LM Start	3.06	Rating **	M	Issue No.	37
LM End	3.06	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.961798 °	39.961798 °
				-122.032723 °	-122.032723 °
DWR ID	DWR_NA0019_01_f_2015_37				
Comment Code					
EQ : Equipment					
Inspector Comment					
Remove the scrap equipment along the waterside toe.					

Photo 1 of 1 : SP_2018_NA0019_78_37_20180305_00012.jpg



View of the scrap equipment along the waterside toe.

LM Start	3.14	Rating **	M	Issue No.	33
LM End	3.37	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.948220 °	39.947059 °
				-122.046250 °	-122.050260 °
DWR ID	DWR_NA0019_01_f_2016_33				
Comment Code					
DT : Ditch					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Deer Creek	Left	4.22	04/04/2018 04/04/2018	Bob Duffey

LM Start	3.29	Rating **	M	Issue No.	285	
LM End	3.29	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.947484 °	39.947484 °	
				-122.049011 °	-122.049011 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:22825						
DS_ID:20766						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Indicator Found						
UCIP Comments: Pipe buried. Water flows to low spot and dissapears, but pipe not visible.						
FIELD_STRUCT_DESC: 24-inch pipe through the levee 8-feet below the crown, flap gate on waterward end. Originally included in O+M manual (1957). As-built drawing No. 50-4-2394.						
FS Date: 10/2/2013						

Photo 1 of 3 : UCIP_SP_2018_22825_38952.jpg



Low spot with water on LS toe.

LM Start	3.29	Rating **	M	Issue No.	285 (cont)
LM End	3.29	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_22825_38951.jpg



Low spot with water on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Deer Creek	Left	4.22	04/04/2018 04/04/2018	Bob Duffey

LM Start	3.29	Rating **	M	Issue No.	285 (cont)	
LM End	3.29	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			39.947484 °		39.947484 °
				-122.049011 °		-122.049011 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:22825 DS_ID:20766 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Pipe buried. Water flows to low spot and dissappears, but pipe not visible. FIELD_STRUCT_DESC: 24-inch pipe through the levee 8-feet below the crown, flap gate on waterward end. Originally included in O+M manual (1957). As-built drawing No. 50-4-2394. FS Date: 10/2/2013						

Photo 3 of 3 : UCIP_SP_2018_22825_38953.jpg



Low spot on LS toe where water disappears from levee toe. Unable to identify exact location of pipe on LS toe.

LM Start	3.42	Rating **	C	Issue No.	47
LM End	3.43	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			39.946800 °	39.946900 °
				-122.051260 °	-122.051500 °
DWR ID	DWR_NA0019_01_f_2017_47				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:270					
Site Designation:LMA-71					
Repair Type: Erosion					
Rating:Critical					
Field Date:6/6/2017					
Notes: Near vertical erosion scarp.The erosion site was repaired by 10-16-2017.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Deer Creek	Left	4.22	04/04/2018 04/04/2018	Bob Duffey

LM Start	3.46	Rating **	M	Issue No.	34
LM End	3.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.946831 °	39.946831 °
				-122.051940 °	-122.051940 °
DWR ID	DWR_NA0019_01_f_2016_34				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	3.58	Rating **	M	Issue No.	35
LM End	3.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.946051 °	39.946051 °
				-122.053985 °	-122.053985 °
DWR ID	DWR_NA0019_01_f_2016_35				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0019_78_35_20180305_00011.jpg



View of the vegetation along the landside slope and toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Deer Creek	Left	4.22	04/04/2018 04/04/2018	Bob Duffey

LM Start	3.59	Rating **	M	Issue No.	286
LM End	3.59	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.945964 °	39.945964 °
				-122.054229 °	-122.054229 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:23007 DS_ID:24687 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this crossing. FIELD_STRUCT_DESC: 48-inch corrugated metal drainage pipe through the levee, 6 feet below the crown. Flap gate on the waterside (WS) end. FS Date: 10/3/2013					

Photo 1 of 3 : UCIP_SP_2018_23007_39070.jpg



Pipe visible on LS toe.

LM Start	3.59	Rating **	M	Issue No.	286 (cont)
LM End	3.59	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_23007_39069.jpg



Pipe visible on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Deer Creek	Left	4.22	04/04/2018 04/04/2018	Bob Duffey

LM Start	3.59	Rating **	M	Issue No.	286 (cont)	
LM End	3.59	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.945964 °	39.945964 °	
				-122.054229 °	-122.054229 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:23007 DS_ID:24687 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this crossing. FIELD_STRUCT_DESC: 48-inch corrugated metal drainage pipe through the levee, 6 feet below the crown. Flap gate on the waterside (WS) end. FS Date: 10/3/2013						

Photo 3 of 3 : UCIP_SP_2018_23007_39068.jpg



Flapgate visible on WS toe.

LM Start	3.60	Rating **	M	Issue No.	287	
LM End	3.60	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.945952 °	39.945952 °	
				-122.054259 °	-122.054259 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39836						
DS_ID:24688						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: No permit identified for this crossing. Brush should be removed from flapgate outlet.						
FIELD_STRUCT_DESC: 48-inch corrugated metal drainage pipe through the levee, 6 feet below the crown. Flap gate on the waterside (WS) end.						
FS Date: 10/3/2013						

Photo 1 of 3 : UCIP_SP_2018_39836_39073.jpg



Pipe visible on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Deer Creek	Left	4.22	04/04/2018 04/04/2018	Bob Duffey

LM Start	3.60	Rating **	M	Issue No.	287 (cont)	
LM End	3.60	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.945952 °	39.945952 °	
				-122.054259 °	-122.054259 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:39836						
DS_ID:24688						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: No permit identified for this crossing. Brush should be removed from flapgate outlet.						
FIELD_STRUCT_DESC: 48-inch corrugated metal drainage pipe through the levee, 6 feet below the crown. Flap gate on the waterside (WS) end.						
FS Date: 10/3/2013						

Photo 2 of 3 : UCIP_SP_2018_39836_39072.jpg



Pipe visible on LS toe.

LM Start	3.60	Rating **	M	Issue No.	287 (cont)
LM End	3.60	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2018_39836_39071.jpg



Flapgate visible on WS toe covered in brush.

* Location
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

** Rating
 A : Acceptable
 M : Minimally Acceptable
 U : Unacceptable
 N : Not Inspected/Rated
 C : Corrected
 A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Deer Creek	Left	4.22	04/04/2018 04/04/2018	Bob Duffey

LM Start	3.60	Rating **	M	Issue No.	288
LM End	3.60	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.945928 °	39.945928 °
				-122.054305 °	-122.054305 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:51439 DS_ID:24689 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 12/05/2016 same as last inspection. Crossing has been downgraded from Urgent to Non-Urgent WS flap gate is closed. Recommend clearing dense vegetation on WS and completing an internal inspection to determine condition of the pipe through the levee. (O. Magana - DWR UCIP)10/03/2013 Flapgate does not fully close. Needs brush cleared away from outlet. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 7 feet below the crown. Flap gate located on the waterside (WS) end. Concrete headwall located on the landside (LS) toe. FS Date: 12/5/2016					

Photo 1 of 3 : UCIP_SP_2018_51439_39076.jpg



Pipe visible at headwall on LS toe.

LM Start	3.60	Rating **	M	Issue No.	288 (cont)
LM End	3.60	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_51439_39075.jpg



Flapgate visible on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Deer Creek	Left	4.22	04/04/2018 04/04/2018	Bob Duffey

LM Start	3.60	Rating **	M	Issue No.	288 (cont)	
LM End	3.60	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.945928 °	39.945928 °	
				-122.054305 °	-122.054305 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51439						
DS_ID:24689						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 12/05/2016 same as last inspection. Crossing has been downgraded from Urgent to Non-Urgent WS flap gate is closed. Recommend clearing dense vegetation on WS and completing an internal inspection to determine condition of the pipe through the levee. (O. Magana - DWR UCIP)10/03/2013 Flapgate does not fully close. Needs brush cleared away from outlet. (W. Wylie - DWR UCIP)						
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 7 feet below the crown. Flap gate located on the waterside (WS) end. Concrete headwall located on the landside (LS) toe.						
FS Date: 12/5/2016						

Photo 3 of 3 : UCIP_SP_2018_51439_39074.jpg



Flapgate visible on WS toe.

LM Start	3.61	Rating **	U	Issue No.	36
LM End	3.69	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.945845 °	39.944878 °
				-122.054329 °	-122.053281 °
DWR ID	DWR_NA0019_01_f_2016_36				
Comment Code					
DT : Ditch					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Deer Creek	Left	4.22	04/04/2018 04/04/2018	Bob Duffey

LM Start	3.68	Rating **	M	Issue No.	15
LM End	3.68	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.945045 °	39.945045 °
				-122.053469 °	-122.053469 °
DWR ID	DWR_NA0019_01_f_2012_15				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0019_78_15_20180305_00003.jpg



View of the erosion caused by livestock along the landside slope.

LM Start	3.75	Rating **	M	Issue No.	289	
LM End	3.75	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.944460 °	39.944460 °	
				-122.053930 °	-122.053930 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:23094 DS_ID:20763 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Erosion on WS toe. FIELD_STRUCT_DESC: 12-inch concrete drainage pipe, through the levee, 2-feet below the crown. FS Date: 10/3/2013						

Photo 1 of 3 : UCIP_SP_2018_23094_39307.jpg



Concrete pipe at inlet on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Deer Creek	Left	4.22	04/04/2018 04/04/2018	Bob Duffey

LM Start	3.75	Rating **	M	Issue No.	289 (cont)	
LM End	3.75	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.944460 °	39.944460 °	
				-122.053930 °	-122.053930 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:23094 DS_ID:20763 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Erosion on WS toe. FIELD_STRUCT_DESC: 12-inch concrete drainage pipe, through the levee, 2-feet below the crown. FS Date: 10/3/2013						

Photo 2 of 3 : UCIP_SP_2018_23094_39306.jpg



Concrete pipe at outlet on WS toe.

LM Start	3.75	Rating **	M	Issue No.	289 (cont)
LM End	3.75	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2018_23094_39305.jpg



Concrete pipe at outlet on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Deer Creek	Left	4.22	04/04/2018 04/04/2018	Bob Duffey

LM Start	3.75	Rating **	M	Issue No.	290	
LM End	3.75	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.944426 °	39.944426 °	
				-122.054045 °	-122.054045 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:23092						
DS_ID:24691						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Outlet substantially blocked at WS toe. No permit identified for this crossing.						
FIELD_STRUCT_DESC: 10-inch reinforced concrete irrigation pipe through the levee, 2 feet below the crown. Slide gate at terminal end of concrete channel on the landside (LS) shoulder.						
FS Date: 10/3/2013						

Photo 1 of 3 : UCIP_SP_2018_23092_39298.jpg



Slide panel at inlet on LS shoulder.

LM Start	3.75	Rating **	M	Issue No.	290 (cont)
LM End	3.75	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_23092_39297.jpg



Pipe outlet on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Deer Creek	Left	4.22	04/04/2018 04/04/2018	Bob Duffey

LM Start	4.03	Rating **	A/W	Issue No.	291
LM End	4.03	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.941574 °	39.941574 °
				-122.057597 °	-122.057597 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:21741
DS_ID:20760
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments:
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 5 feet below the crown. Flap gate on the waterside (WS) end. Headwalls on both sides of levee. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 509, March 1957, (Assumed Station 5+00) Drawing No. 50-4-2394].
FS Date: 10/3/2013

LM Start	4.03	Rating **	A/W	Issue No.	291 (cont)
LM End	4.03	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2018_21741_36937.jpg



Pipe and concrete headwall on LS toe.

Photo 2 of 3 : UCIP_SP_2018_21741_36936.jpg



Flapgate on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Deer Creek	Left	4.22	04/04/2018 04/04/2018	Bob Duffey

LM Start	4.03	Rating **	A/W	Issue No.	291 (cont)	
LM End	4.03	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.941574 °	39.941574 °	
				-122.057597 °	-122.057597 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:21741						
DS_ID:20760						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe						
through the levee, 5 feet below the crown. Flap gate on the waterside						
(WS) end. Headwalls on both sides of levee. [Additional Reference(s):						
DWR Levee Log, 1992. USACE Sacramento O&M Manual 509, March						
1957, (Assumed Station 5+00) Drawing No. 50-4-2394].						
FS Date: 10/3/2013						

Photo 3 of 3 : UCIP_SP_2018_21741_36935.jpg



Flapgate and concrete headwall on WS toe.

LM Start	4.10	Rating **	U	Issue No.	292
LM End	4.10	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.941002 °	39.941002 °
				-122.058711 °	-122.058711 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:51441 DS_ID:20762 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 12/05/2016 unable to complete inspection -- unable to locate. (O. Magana - DWR UCIP)10/03/2013 Gate missing from WS toe. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 5.5 feet below the crown. Flap gate located on the waterside (WS) end. Concrete headwall located on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual Unit 509, March 1957, As-built drawing no. 50-4-2394 (Station 0+65)]. FS Date: 12/5/2016					

Photo 1 of 3 : UCIP_SP_2018_51441_36942.jpg



Inlet on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Deer Creek	Left	4.22	04/04/2018 04/04/2018	Bob Duffey

LM Start	4.10	Rating **	U	Issue No.	292 (cont)	
LM End	4.10	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.941002 °	39.941002 °	
				-122.058711 °	-122.058711 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51441 DS_ID:20762 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 12/05/2016 unable to complete inspection -- unable to locate. (O. Magana - DWR UCIP)10/03/2013 Gate missing from WS toe. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 5.5 feet below the crown. Flap gate located on the waterside (WS) end. Concrete headwall located on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual Unit 509, March 1957, As-built drawing no. 50-4-2394 (Station 0+65)]. FS Date: 12/5/2016						

LM Start	4.10	Rating **	U	Issue No.	292 (cont)
LM End	4.10	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2018_51441_36941.jpg



Concrete headwall at inlet on LS toe.

Photo 3 of 3 : UCIP_SP_2018_51441_36940.jpg



Flap gate missing from pipe at WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2018 Levee Inspection Results

Tehama County Flood Control and Water Conservation District

Waterway			Bank	Unit Miles
Unit No. 02 Deer Creek			Right	1.89
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/4/2018 - 4/4/2018			
DWR Inspector	Bob Duffey			
Accompanied By	Ryan Teubert Tehama County			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Deer Creek	Right	1.89	04/04/2018 04/04/2018	Bob Duffey

LM Start	0.23	Rating **	M	Issue No.	13
LM End	0.23	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.970598 °	39.970598 °
				-122.013053 °	-122.013053 °
DWR ID	DWR_NA0019_02_f_2016_13				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Remove trees smaller than 4-inches in diameter at chest height.					

Photo 1 of 1 : SP_2018_NA0019_79_13_20180305_00008.jpg



View of a tree with new thick growth blocking visibility.

LM Start	0.30	Rating **	M	Issue No.	2
LM End	0.30	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.970305 °	39.970305 °
				-122.014465 °	-122.014465 °
DWR ID	DWR_NA0019_02_s_2012_2				
Comment Code					
DE : Debris					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0019_79_2_20180305_00001.jpg



View of debris and wire at the toe of levee.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Deer Creek	Right	1.89	04/04/2018 04/04/2018	Bob Duffey

LM Start	0.31	Rating **	M	Issue No.	21
LM End	0.31	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.970256 °	39.970256 °
				-122.014471 °	-122.014471 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40789 DS_ID:24683 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this crossing. FIELD_STRUCT_DESC: 4-inch galvanized iron communications conduit through the levee, at an unknown depth. Pipe visible on upstream side of bridge. FS Date: 10/2/2013					

Photo 1 of 3 : UCIP_SP_2018_40789_39057.jpg



Communication line access box on WS shoulder.

LM Start	0.31	Rating **	M	Issue No.	21 (cont)
LM End	0.31	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_40789_39056.jpg



Communication line access box on WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Deer Creek	Right	1.89	04/04/2018 04/04/2018	Bob Duffey

LM Start	0.31	Rating **	M	Issue No.	21 (cont)	
LM End	0.31	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.970256 °	39.970256 °	
				-122.014471 °	-122.014471 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:40789 DS_ID:24683 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this crossing. FIELD_STRUCT_DESC: 4-inch galvanized iron communications conduit through the levee, at an unknown depth. Pipe visible on upstream side of bridge. FS Date: 10/2/2013						

Photo 3 of 3 : UCIP_SP_2018_40789_39055.jpg



Communication line conduit visible on upstream side of bridge at WS.

LM Start	0.32	Rating **	M	Issue No.	11
LM End	0.34	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.970193 °	39.970188 °
				-122.014738 °	-122.015034 °
DWR ID	DWR_NA0019_02_s_2016_11				
Comment Code					
DT : Ditch					
Inspector Comment					
Concrete-lined.					

Photo 1 of 1 : SP_2018_NA0019_79_11_20180305_00006.jpg



View of a concrete-lined ditch along the levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Deer Creek	Right	1.89	04/04/2018 04/04/2018	Bob Duffey

LM Start	0.34	Rating **	M	Issue No.	4
LM End	0.34	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.970210 °	39.970210 °
				-122.015198 °	-122.015198 °
DWR ID	DWR_NA0019_02_s_2012_4				
Comment Code					
DE : Debris					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0019_79_4_20180305_00003.jpg



View of the concrete pile along the waterside toe.

LM Start	0.35	Rating **	M	Issue No.	14
LM End	0.35	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.970153 °	39.970153 °
				-122.015194 °	-122.015194 °
DWR ID	DWR_NA0019_02_f _ 2016_14				
Comment Code					
FW : Firewood					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0019_79_14_20180305_00009.jpg



View of the firewood along the waterside slope.

LM Start	0.35	Rating **	M	Issue No.	7
LM End	0.35	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.970117 °	39.970117 °
				-122.015365 °	-122.015365 °
DWR ID	DWR_NA0019_02_s_2012_7				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0019_79_7_20180305_00005.jpg



View of a building along the levee toe.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Deer Creek	Right	1.89	04/04/2018 04/04/2018	Bob Duffey

LM Start	0.64	Rating **	M	Issue No.	15
LM End	0.64	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.968704 °	39.968704 °
				-122.020172 °	-122.020172 °
DWR ID	DWR_NA0019_02_f _ 2016_15				
Comment Code					
FW : Firewood					
Inspector Comment					

No Photos

LM Start	0.68	Rating **	M	Issue No.	22
LM End	0.68	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.968818 °	39.968818 °
				-122.020904 °	-122.020904 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:51442 DS_ID:20771 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 12/05/2016 Crossing has been downgraded from Urgent to Non-Urgent some debris blocking proper function of flapgate on WS. Recommend clearing debris from WS for flapgate to function properly. (O. Magana - DWR UCIP)10/01/2013 Debris blocking proper function of flapgate on WS toe. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 24-inch steel drainage pipe through the levee, 8.3 feet below the crown. Flap gate located on the waterside (WS) end. Concrete headwall located on the landside (LS). [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual Unit 509, March 1957, Unit 510, April 1963, Unit 511, May 1973, Unit 512, March 1964, Unit 513, December 1970, As-builts drawing 50-4-2394 (Station 155+40)]. FS Date: 12/5/2016					

Photo 1 of 3 : UCIP_SP_2018_51442_36902.jpg



Concrete headwall at LS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Deer Creek	Right	1.89	04/04/2018 04/04/2018	Bob Duffey

LM Start	0.68	Rating **	M	Issue No.	22 (cont)	
LM End	0.68	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.968818 °	39.968818 °	
				-122.020904 °	-122.020904 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51442 DS_ID:20771 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 12/05/2016 Crossing has been downgraded from Urgent to Non-Urgent some debris blocking proper function of flapgate on WS. Recommend clearing debris from WS for flapgate to function properly. (O. Magana - DWR UCIP)10/01/2013 Debris blocking proper function of flapgate on WS toe. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 24-inch steel drainage pipe through the levee, 8.3 feet below the crown. Flap gate located on the waterside (WS) end. Concrete headwall located on the landside (LS). [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual Unit 509, March 1957, Unit 510, April 1963, Unit 511, May 1973, Unit 512, March 1964, Unit 513, December 1970, As-builts drawing 50-4-2394 (Station 155+40)]. FS Date: 12/5/2016						

LM Start	0.68	Rating **	M	Issue No.	22 (cont)
LM End	0.68	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2018_51442_36901.jpg



Concrete headwall at LS toe.

Photo 3 of 3 : UCIP_SP_2018_51442_36900.jpg



Outlet on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Deer Creek	Right	1.89	04/04/2018 04/04/2018	Bob Duffey

LM Start	0.79	Rating **	M	Issue No.	19
LM End	1.50	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.968679 °	39.941069 °
				-122.022938 °	-122.064778 °
DWR ID	DWR_NA0019_02_f_2017_19				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the native grasses from both slopes.					

Photo 1 of 1 : SP_2018_NA0019_79_19_20180305_00011.jpg



View of the native grasses on both slopes.

LM Start	0.81	Rating **	M	Issue No.	12
LM End	0.85	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.968530 °	39.968248 °
				-122.023305 °	-122.023900 °
DWR ID	DWR_NA0019_02_s_2017_12				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repair the crown roadway.					

Photo 1 of 1 : SP_2018_NA0019_79_12_20180305_00007.jpg



View of the erosion on the crown roadway.

LM Start	0.81	Rating **	M	Issue No.	17
LM End	0.85	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.968530 °	39.968248 °
				-122.023305 °	-122.023900 °
DWR ID	DWR_NA0019_02_s_2017_17				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repair the erosion along the landside slope.					

Photo 1 of 1 : SP_2018_NA0019_79_17_20180305_00010.jpg



View of the erosion along the landside slope.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Deer Creek	Right	1.89	04/04/2018 04/04/2018	Bob Duffey

LM Start	0.82	Rating **	A/W	Issue No.	18
LM End	0.83	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			39.968560 °	39.968400 °
				-122.023400 °	-122.023600 °
DWR ID	DWR_NA0019_02_f_2017_18				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:177					
Site Designation:LMA-24					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:6/6/2017					
Notes: No real problem in concern to erosion is visible, the problem was this site had overtopping during 2017 storms. Solution would be to raise levee crest or any other form of raising the levee. Sandbags were present.					

No Photos

LM Start	0.85	Rating **	M	Issue No.	1
LM End	0.90	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.968165 °	39.967766 °
				-122.023828 °	-122.024620 °
DWR ID	DWR_NA0019_02_s_2016_1				
Comment Code					
Inspector Comment					
2006 - Banks are composed of lithified cobble alluvial soils (relict alluvial fan deposits). Slow erosion of lithified lower bank materials with faster erosion of overlying less cohesive soils resulting in channel "skating" across lithified horizon. 2011 - The Deer Creek Watershed Conservation Group is planning a reach-wide repair for Deer Creek. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: DEC_0-9_R]					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Deer Creek	Right	1.89	04/04/2018 04/04/2018	Bob Duffey

LM Start	0.87	Rating **	A	Issue No.	20
LM End	0.87	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.968133 °	39.968133 °
				-122.024170 °	-122.024170 °
DWR ID	DWR_NA0019_02_s_2018_20				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Native vegetation is well maintained on both slopes.					

Photo 1 of 1 : SP_2018_NA0019_79_20_20180405_00019.jpg



View of native vegetation on both slopes.

LM Start	1.28	Rating **	C	Issue No.	6
LM End	1.28	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.964883 °	39.964883 °
				-122.030655 °	-122.030655 °
DWR ID	DWR_NA0019_02_s_2012_6				
Comment Code					
FW : Firewood					
Inspector Comment					
The firewood was removed from the waterside slope.					

No Photos

LM Start	1.45	Rating **	A/W	Issue No.	16
LM End	1.89	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.941493 °	39.937676 °
				-122.064035 °	-122.072275 °
DWR ID	DWR_NA0019_02_f_2016_16				
Comment Code					
EQ : Equipment					
Inspector Comment					
Remainder of Unit No. 2 levee is not accessible due to the lack of easement and the landowner will not allow DWR access.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2018 Levee Inspection Results

Tehama County Flood Control and Water Conservation District

Waterway			Bank	Unit Miles
Unit No. 04 Elder Creek			Left	3.98
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/4/2018 - 4/4/2018			
DWR Inspector	Bob Duffey			
Accompanied By	Ryan Teubert Tehama County			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

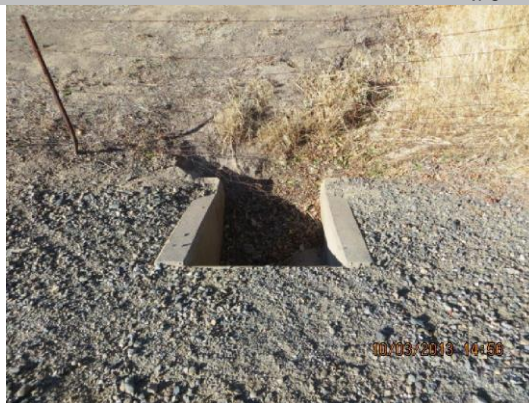
Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Elder Creek	Left	3.98	04/04/2018 04/04/2018	Bob Duffey

LM Start	0.25	Rating **	A/W	Issue No.	917
LM End	0.25	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			40.051604 °	40.051604 °
				-122.184431 °	-122.184431 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:21795 DS_ID:20775 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 4 feet below the crown. Flap gate and concrete U-shaped headwall on the waterside (WS) end. Concrete U-shaped headwall on the landside (LS) end. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 510, April 1963, (HLM 0.26) Drawing No. 50-4-3622]. FS Date: 10/3/2013					

LM Start	0.25	Rating **	A/W	Issue No.	917 (cont)
LM End	0.25	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2018_21795_37074.jpg



Concrete U-shaped headwall on LS toe.

Photo 2 of 3 : UCIP_SP_2018_21795_37073.jpg



Concrete U-shaped headwall on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Elder Creek	Left	3.98	04/04/2018 04/04/2018	Bob Duffey

LM Start	0.38	Rating **	A/W	Issue No.	918 (cont)	
LM End	0.38	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			40.051572 °	40.051572 °	
				-122.182093 °	-122.182093 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:22826						
DS_ID:20776						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 4.5 feet below the crown. Flap gate and concrete U-shaped headwall on the waterside (WS) end. Concrete U-shaped headwall on the landside (LS) end. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 510, April 1963, (HLM 0.39) Drawing No. 50-4-3622].						
FS Date: 10/3/2013						

Photo 2 of 3 : UCIP_SP_2018_22826_38960.jpg



Concrete U-shaped headwall on LS toe.

LM Start	0.38	Rating **	A/W	Issue No.	918 (cont)
LM End	0.38	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2018_22826_38963.jpg



Concrete U-shaped headwall with concrete swale on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Elder Creek	Left	3.98	04/04/2018 04/04/2018	Bob Duffey

LM Start	0.51	Rating **	A/W	Issue No.	919
LM End	0.51	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			40.051211 °	40.051211 °
				-122.179663 °	-122.179663 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:21793 DS_ID:20777 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 5 feet below the crown. Flap gate and concrete U-shaped headwall on the waterside (WS) end. Concrete U-shaped headwall on the landside (LS) end. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 510, April 1963, (HLM 0.52) Drawing No. 50-4-3622]. FS Date: 10/3/2013					

Photo 1 of 3 : UCIP_SP_2018_21793_37069.jpg



Concrete U-shaped headwall on LS toe.

LM Start	0.51	Rating **	A/W	Issue No.	919 (cont)
LM End	0.51	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2018_21793_37068.jpg



Concrete U-shaped headwall on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Spring 2018

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Elder Creek	Left	3.98	04/04/2018 04/04/2018	Bob Duffey

Photo 3 of 3 : UCIP_SP_2018_21793_37067.jpg

Concrete U-shaped headwall and flapgate on WS toe.

Photo 1 of 3 : UCIP_SP_2018_21792_37065.jpg



Concrete U-shaped headwall on LS toe.

Thursday, May 31, 2018 08:15 **FINAL DATA** Page 5 of 41

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Elder Creek	Left	3.98	04/04/2018 04/04/2018	Bob Duffey

LM Start	0.64	Rating **	A/W	Issue No.	920 (cont)	
LM End	0.64	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			40.051699 °	40.051699 °	
				-122.177320 °	-122.177320 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:21792						
DS_ID:20778						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 1 of 2: 36-inch corrugated metal drainage pipe through the levee, 8.6 feet below the crown. Flap gate and concrete U-shaped headwall on the waterside (WS) end. Concrete U-shaped headwall on the landside (LS) end. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 510, April 1963, (HLM 0.65) Drawing No. 50-4-3622].						
FS Date: 10/3/2013						

Photo 2 of 3 : UCIP_SP_2018_21792_37064.jpg



Concrete U-shaped headwall on WS toe.

LM Start	0.64	Rating **	A/W	Issue No.	920 (cont)
LM End	0.64	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2018_21792_37063.jpg



Concrete U-shaped headwall and flapgate on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Elder Creek	Left	3.98	04/04/2018 04/04/2018	Bob Duffey

LM Start	0.64	Rating **	M	Issue No.	921
LM End	0.64	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			40.051702 °	40.051702 °
				-122.177308 °	-122.177308 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:51443 DS_ID:20880 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 12/05/2016 Crossing has been downgraded from Urgent to Non-Urgent vegetation found on WS but does not appear to prevent proper function of flap gate. Recommend clearing dry vegetation on WS above concrete headwall.(O. Magana - DWR UCIP)10/03/2013 Flapgate operation hindered by soil and vegetation on WS toe. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 2 of 2: 36-inch corrugated metal drainage pipe through levee, 8.6 feet below crown. Flap gate and concrete "U" headwall located on the waterside (WS) end. Concrete "U" headwall located on the landside (LS) end. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual, Unit 510, April 1963, As-built drawing No. 50-4-3622 (HLM 0.65)] FS Date: 12/5/2016					

LM Start	0.64	Rating **	M	Issue No.	921 (cont)
LM End	0.64	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2018_51443_37061.jpg



Concrete U-shaped headwall on LS toe.

Photo 2 of 3 : UCIP_SP_2018_51443_37060.jpg



Concrete U-shaped headwall on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Elder Creek	Left	3.98	04/04/2018 04/04/2018	Bob Duffey

LM Start	0.64	Rating **	M	Issue No.	921 (cont)	
LM End	0.64	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			40.051702 °	40.051702 °	
				-122.177308 °	-122.177308 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51443 DS_ID:20880 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 12/05/2016 Crossing has been downgraded from Urgent to Non-Urgent vegetation found on WS but does not appear to prevent proper function of flap gate. Recommend clearing dry vegetation on WS above concrete headwall.(O. Magana - DWR UCIP)10/03/2013 Flapgate operation hindered by soil and vegetation on WS toe. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 2 of 2: 36-inch corrugated metal drainage pipe through levee, 8.6 feet below crown. Flap gate and concrete "U" headwall located on the waterside (WS) end. Concrete "U" headwall located on the landside (LS) end. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual, Unit 510, April 1963, As-built drawing No. 50-4-3622 (HLM 0.65)] FS Date: 12/5/2016						

Photo 3 of 3 : UCIP_SP_2018_51443_37059.jpg



Concrete U-shaped headwall and flapgate on WS toe.

LM Start	0.73	Rating **	M	Issue No.	13
LM End	0.73	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			40.052003 °	40.052003 °
				-122.175687 °	-122.175687 °
DWR ID	DWR_NA0019_04_f_2016_13				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0019_81_13_20180305_00008.jpg



View of a tree with overhanging branches.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Elder Creek	Left	3.98	04/04/2018 04/04/2018	Bob Duffey

LM Start	0.75	Rating **	A/W	Issue No.	922
LM End	0.75	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			40.052194 °	40.052194 °
				-122.175390 °	-122.175390 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:21790 DS_ID:20779 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 5.8 feet below the crown. Flap gate and concrete U-shaped headwall on the waterside (WS) end. Concrete U-shaped headwall on the landside (LS) end. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 510, April 1963, (HLM 0.76) Drawing No. 50-4-3622]. FS Date: 10/3/2013					

Photo 1 of 3 : UCIP_SP_2018_21790_37057.jpg



Concrete U-shaped headwall on LS toe.

LM Start	0.75	Rating **	A/W	Issue No.	922 (cont)
LM End	0.75	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2018_21790_37056.jpg



Concrete U-shaped headwall on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Elder Creek	Left	3.98	04/04/2018 04/04/2018	Bob Duffey

LM Start	0.91	Rating **	A/W	Issue No.	923 (cont)	
LM End	0.91	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			40.053401 °		40.053401 °
				-122.172848 °		-122.172848 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:22827						
DS_ID:20780						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 4.5 feet below the crown. Flap gate and concrete U-shaped headwall on the waterside (WS) end. Concrete U-shaped headwall on the landside (LS) end. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 510, April 1963, (HLM 0.93) Drawing No. 50-4-3622].						
FS Date: 10/3/2013						

Photo 2 of 3 : UCIP_SP_2018_22827_38969.jpg



Concrete U-shaped headwall on WS toe.

LM Start	0.91	Rating **	A/W	Issue No.	923 (cont)
LM End	0.91	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2018_22827_38972.jpg



Flapgate on headwall at WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Elder Creek	Left	3.98	04/04/2018 04/04/2018	Bob Duffey

LM Start	0.92	Rating **	M	Issue No.	50
LM End	0.92	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			40.053420 °	40.053420 °
				-122.172617 °	-122.172617 °
DWR ID	DWR_NA0019_04_f_2017_50				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the tree from the waterside toe.					

Photo 1 of 1 : SP_2018_NA0019_81_50_20180305_00023.jpg



View of the tree along waterside toe.

LM Start	1.07	Rating **	A/W	Issue No.	924
LM End	1.07	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			40.052400 °	40.052400 °
				-122.170279 °	-122.170279 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:21788					
DS_ID:20790					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 5 feet below the crown. Flap gate and concrete U-shaped headwall on the waterside (WS) end. Concrete U-shaped headwall on the landside (LS) end. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 510, April 1963, (HLM 1.10) Drawing No. 50-4-3622].					
FS Date: 10/3/2013					

Photo 1 of 3 : UCIP_SP_2018_21788_37050.jpg



Concrete U-shaped headwall on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Elder Creek	Left	3.98	04/04/2018 04/04/2018	Bob Duffey

LM Start	1.07	Rating **	A/W	Issue No.	924 (cont)	
LM End	1.07	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			40.052400 °	40.052400 °	
				-122.170279 °	-122.170279 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:21788 DS_ID:20790 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 5 feet below the crown. Flap gate and concrete U-shaped headwall on the waterside (WS) end. Concrete U-shaped headwall on the landside (LS) end. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 510, April 1963, (HLM 1.10) Drawing No. 50-4-3622]. FS Date: 10/3/2013						

Photo 2 of 3 : UCIP_SP_2018_21788_37053.jpg



Concrete U-shaped headwall and flapgate on WS toe.

LM Start	1.07	Rating **	A/W	Issue No.	924 (cont)
LM End	1.07	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2018_21788_37052.jpg



Concrete U-shaped headwall on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Elder Creek	Left	3.98	04/04/2018 04/04/2018	Bob Duffey

LM Start	1.11	Rating **	A/W	Issue No.	925
LM End	1.11	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			40.051958 °	40.051958 °
				-122.170031 °	-122.170031 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:21786 DS_ID:20773 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 5.1 feet below the crown. Flap gate and concrete U-shaped headwall on the waterside (WS) end. Concrete U-shaped headwall on the landside (LS) end. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 510, April 1963, (HLM 1.12) Drawing No. 50-4-3622]. FS Date: 10/3/2013					

Photo 1 of 2 : UCIP_SP_2018_21786_37048.jpg



Concrete U-shaped headwall and flapgate on WS slope.

LM Start	1.11	Rating **	A/W	Issue No.	925 (cont)
LM End	1.11	Issue Type +	Ma	Location *	

Photo 2 of 2 : UCIP_SP_2018_21786_37047.jpg



Concrete U-shaped headwall on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Elder Creek	Left	3.98	04/04/2018 04/04/2018	Bob Duffey

LM Start	1.12	Rating **	M	Issue No.	27
LM End	1.12	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			40.051950 °	40.051950 °
				-122.169872 °	-122.169872 °
DWR ID	DWR_NA0019_04_f_2016_27				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0019_81_27_20180305_00016.jpg



View of the slope instability caused by vehicles.

LM Start	1.15	Rating **	M	Issue No.	51
LM End	1.15	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			40.051848 °	40.051848 °
				-122.169295 °	-122.169295 °
DWR ID	DWR_NA0019_04_f_2017_51				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Repair the rodent holes along the landside slope.					

Photo 1 of 1 : SP_2018_NA0019_81_51_20180305_00024.jpg



View of the rodent holes along the landside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Elder Creek	Left	3.98	04/04/2018 04/04/2018	Bob Duffey

LM Start	1.30	Rating **	A/W	Issue No.	926
LM End	1.30	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			40.051563 °	40.051563 °
				-122.166630 °	-122.166630 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:21778 DS_ID:20782 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 4.5 feet below the crown. Flap gate and concrete U-shaped headwall on the waterside (WS) end. Concrete U-shaped headwall on the landside (LS) end. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 510, April 1963, (HLM 1.30) Drawing No. 50-4-3622]. FS Date: 10/3/2013					

Photo 1 of 3 : UCIP_SP_2018_21778_37037.jpg



Concrete U-shaped headwall on LS toe.

LM Start	1.30	Rating **	A/W	Issue No.	926 (cont)
LM End	1.30	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2018_21778_37036.jpg



Concrete U-shaped headwall on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Elder Creek	Left	3.98	04/04/2018 04/04/2018	Bob Duffey

LM Start	1.30	Rating **	A/W	Issue No.	926 (cont)	
LM End	1.30	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			40.051563 °	40.051563 °	
				-122.166630 °	-122.166630 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:21778						
DS_ID:20782						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 4.5 feet below the crown. Flap gate and concrete U-shaped headwall on the waterside (WS) end. Concrete U-shaped headwall on the landside (LS) end. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 510, April 1963, (HLM 1.30) Drawing No. 50-4-3622].						
FS Date: 10/3/2013						

Photo 3 of 3 : UCIP_SP_2018_21778_37035.jpg



Concrete U-shaped headwall on LS toe.

LM Start	1.39	Rating **	M	Issue No.	16
LM End	1.39	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			40.051493 °	40.051493 °
				-122.164935 °	-122.164935 °
DWR ID	DWR_NA0019_04_f_2014_16				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0019_81_16_20180305_00011.jpg



View of the slope instability caused by vehicles along the waterside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Elder Creek	Left	3.98	04/04/2018 04/04/2018	Bob Duffey

LM Start	1.39	Rating **	M	Issue No.	28
LM End	1.39	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			40.051521 °	40.051521 °
				-122.164877 °	-122.164877 °
DWR ID	DWR_NA0019_04_f_2016_28				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	1.43	Rating **	A/W	Issue No.	49
LM End	1.49	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			40.051596 °	40.051979 °
				-122.164179 °	-122.163106 °
DWR ID	DWR_NA0019_04_f_2017_49				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:179					
Site Designation:DWR_NA0019_04_s_2012_9					
Repair Type: Erosion					
Rating:Serious					
Field Date:6/6/2017					
Notes: Rip rap armors the river bank (appears placed in recent years).					
The erosion scarp is 10' below the berm at a vertical angle.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Elder Creek	Left	3.98	04/04/2018 04/04/2018	Bob Duffey

LM Start	1.43	Rating **	A/W	Issue No.	5
LM End	1.49	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			40.051596 °	40.051979 °
				-122.164179 °	-122.163106 °
DWR ID	DWR_NA0019_04_s_2016_5				
Comment Code					
Inspector Comment					
2006 - High vertical bank due to mass failures. Thalweg meandering and erosion of bank. Banks are cohesive with non-cohesive gravel horizons. 2011 - Foundation is silty-sand with gravel. New slumping at the toe, mass failure continues. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: ELC_1-4_L]					

No Photos

LM Start	1.44	Rating **	M	Issue No.	29
LM End	1.44	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			40.051785 °	40.051785 °
				-122.164075 °	-122.164075 °
DWR ID	DWR_NA0019_04_f_2016_29				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0019_81_29_20180305_00017.jpg



View of the slope instability caused by vehicles along the waterside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Elder Creek	Left	3.98	04/04/2018 04/04/2018	Bob Duffey

LM Start	1.56	Rating **	A/W	Issue No.	927
LM End	1.56	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			40.052495 °	40.052495 °
				-122.161921 °	-122.161921 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:21776 DS_ID:20783 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 5.8 feet below the crown. Flap gate and concrete U-shaped headwall on the waterside (WS) end. Concrete U-shaped headwall on the landside (LS) end. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 510, April 1963, (HLM 1.57) Drawing No. 50-4-3622]. FS Date: 10/3/2013					

Photo 1 of 3 : UCIP_SP_2018_21776_37029.jpg



Concrete U-shaped headwall on LS toe.

LM Start	1.56	Rating **	A/W	Issue No.	927 (cont)
LM End	1.56	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2018_21776_37028.jpg



Concrete U-shaped headwall on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Elder Creek	Left	3.98	04/04/2018 04/04/2018	Bob Duffey

LM Start	1.56	Rating **	A/W	Issue No.	927 (cont)	
LM End	1.56	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			40.052495 °		40.052495 °
				-122.161921 °		-122.161921 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:21776 DS_ID:20783 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 5.8 feet below the crown. Flap gate and concrete U-shaped headwall on the waterside (WS) end. Concrete U-shaped headwall on the landside (LS) end. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 510, April 1963, (HLM 1.57) Drawing No. 50-4-3622]. FS Date: 10/3/2013						

Photo 3 of 3 : UCIP_SP_2018_21776_37027.jpg



Concrete U-shaped headwall on LS toe.

LM Start	1.59	Rating **	M	Issue No.	3
LM End	1.59	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			40.052607 °	40.052705 °
				-122.161418 °	-122.161442 °
DWR ID	DWR__04_s_2012_3				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Tehama Co. repaired the slope that was damaged by vehicle traffic, but the damage has returned. On 4/26/16, vehicle erosion area was repaired again, but should be monitored.					

Photo 1 of 2 : SP_2018_NA0019_81_3_20180305_00003.jpg



View of a dip along the levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Elder Creek	Left	3.98	04/04/2018 04/04/2018	Bob Duffey

LM Start	1.59	Rating **	M	Issue No.	3 (cont)	
LM End	1.59	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Slope Stability			40.052607 °		40.052705 °
				-122.161418 °		-122.161442 °
DWR ID	DWR_04_s_2012_3					
Comment Code						
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.						
Inspector Comment						
Tehama Co. repaired the slope that was damaged by vehicle traffic, but the damage has returned. On 4/26/16, vehicle erosion area was repaired again, but should be monitored.						

Photo 2 of 2 : SP_2018_NA0019_81_3_20180305_00004.jpg



View of the levee slope damaged by vehicle traffic.

LM Start	1.69	Rating **	A/W	Issue No.	928
LM End	1.69	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			40.053590 °	40.053590 °
				-122.159982 °	-122.159982 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:21769 DS_ID:20786 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 1 of 3: 36-inch corrugated metal drainage pipe through the levee, 7.3 feet below the crown. Flap gate and concrete U-shaped headwall on the waterside (WS) end. Concrete U-shaped headwall on the landside (LS) end. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 510, April 1963, (HLM 1.70) Drawing No. 50-4-3622]. FS Date: 10/3/2013					

Photo 1 of 3 : UCIP_SP_2018_21769_37004.jpg



Concrete inlet on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Elder Creek	Left	3.98	04/04/2018 04/04/2018	Bob Duffey

LM Start	1.69	Rating **	A/W	Issue No.	928 (cont)	
LM End	1.69	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			40.053590 °	40.053590 °	
				-122.159982 °	-122.159982 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:21769 DS_ID:20786 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 1 of 3: 36-inch corrugated metal drainage pipe through the levee, 7.3 feet below the crown. Flap gate and concrete U-shaped headwall on the waterside (WS) end. Concrete U-shaped headwall on the landside (LS) end. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 510, April 1963, (HLM 1.70) Drawing No. 50-4-3622]. FS Date: 10/3/2013						

Photo 2 of 3 : UCIP_SP_2018_21769_37003.jpg



Concrete inlet on WS toe.

LM Start	1.69	Rating **	A/W	Issue No.	928 (cont)
LM End	1.69	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2018_21769_37002.jpg



Concrete inlet on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Elder Creek	Left	3.98	04/04/2018 04/04/2018	Bob Duffey

LM Start	1.69	Rating **	A/W	Issue No.	929
LM End	1.69	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			40.053601 °	40.053601 °
				-122.159966 °	-122.159966 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:21768 DS_ID:20883 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 2 of 3: 36-inch corrugated metal drainage pipe through the levee, 7.3 feet below the crown. Flap gate and concrete U-shaped headwall on the waterside (WS) end. Concrete U-shaped headwall on the landside (LS) end. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 510, April 1963, (HLM 1.70) Drawing No. 50-4-3622]. FS Date: 10/3/2013					

Photo 1 of 3 : UCIP_SP_2018_21768_37000.jpg



Concrete headwall on LS toe.

LM Start	1.69	Rating **	A/W	Issue No.	929 (cont)
LM End	1.69	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2018_21768_36999.jpg



Concrete headwall on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Elder Creek	Left	3.98	04/04/2018 04/04/2018	Bob Duffey

LM Start	1.69	Rating **	A/W	Issue No.	930 (cont)	
LM End	1.69	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			40.053614 °	40.053614 °	
				-122.159956 °	-122.159956 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:21767 DS_ID:20884 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 3 of 3: 36-inch corrugated metal drainage pipe through the levee, 7.3 feet below the crown. Flap gate and concrete U-shaped headwall on the waterside (WS) end. Concrete U-shaped headwall on the landside (LS) end. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 510, April 1963, (HLM 1.70) Drawing No. 50-4-3622]. FS Date: 10/3/2013						

Photo 2 of 3 : UCIP_SP_2018_21767_36995.jpg



Concrete headwall on WS toe.

LM Start	1.69	Rating **	A/W	Issue No.	930 (cont)
LM End	1.69	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2018_21767_36994.jpg



Concrete headwall on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Elder Creek	Left	3.98	04/04/2018 04/04/2018	Bob Duffey

LM Start	1.99	Rating **	A/W	Issue No.	931
LM End	1.99	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			40.052731 °	40.052731 °
				-122.154695 °	-122.154695 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:21766 DS_ID:20787 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 1 of 2: 36-inch corrugated metal drainage pipe through the levee, 7.6 feet below the crown. Flap gate and concrete U-shaped headwall on the waterside (WS) end. Concrete U-shaped headwall on the landside (LS) end. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 510, April 1963, (HLM 2.01) Drawing No. 50-4-3622]. FS Date: 10/3/2013					

Photo 1 of 3 : UCIP_SP_2018_21766_36992.jpg



Concrete headwall on LS toe.

LM Start	1.99	Rating **	A/W	Issue No.	931 (cont)
LM End	1.99	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2018_21766_36991.jpg



Concrete headwall on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Spring 2018

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Elder Creek	Left	3.98	04/04/2018 04/04/2018	Bob Duffey

Photo 3 of 3 : UCIP_SP_2018_21766_36990.jpg



10/03/2013 13:43

Flapgate on WS toe.

Photo 1 of 3 : UCIP_SP_2018_22828_38978.jpg



Concrete headwall on LS toe.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Elder Creek	Left	3.98	04/04/2018 04/04/2018	Bob Duffey

LM Start	1.99	Rating **	A/W	Issue No.	932 (cont)	
LM End	1.99	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			40.052729 °	40.052729 °	
				-122.154673 °	-122.154673 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:22828						
DS_ID:20885						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 2 of 2: 36-inch corrugated metal drainage pipe through the levee, 7.6 feet below the crown. Flap gate and concrete U-shaped headwall on the waterside (WS) end. Concrete U-shaped headwall on the landside (LS) end. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 510, April 1963, (HLM 2.01) Drawing No. 50-4-3622].						
FS Date: 10/3/2013						

LM Start	1.99	Rating **	A/W	Issue No.	932 (cont)
LM End	1.99	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2018_22828_38977.jpg



Concrete headwall and concrete channel on WS toe.

Photo 3 of 3 : UCIP_SP_2018_22828_38980.jpg



Flapgate on headwall at WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Elder Creek	Left	3.98	04/04/2018 04/04/2018	Bob Duffey

LM Start	2.21	Rating **	A/W	Issue No.	933
LM End	2.21	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			40.051985 °	40.051985 °
				-122.150737 °	-122.150737 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:21763 DS_ID:20788 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 5.9 feet below the crown. Flap gate and concrete U-shaped headwall on the waterside (WS) end. Concrete U-shaped headwall on the landside (LS) end. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 510, April 1963, (HLM 2.24) Drawing No. 50-4-3622]. FS Date: 10/3/2013					

Photo 1 of 3 : UCIP_SP_2018_21763_36982.jpg



Concrete U-shaped headwall on WS slope.

LM Start	2.21	Rating **	A/W	Issue No.	933 (cont)
LM End	2.21	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2018_21763_36981.jpg



Inlet off LS toe in channel.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Elder Creek	Left	3.98	04/04/2018 04/04/2018	Bob Duffey

LM Start	2.21	Rating **	A/W	Issue No.	933 (cont)	
LM End	2.21	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			40.051985 °	40.051985 °	
				-122.150737 °	-122.150737 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:21763						
DS_ID:20788						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 5.9 feet below the crown. Flap gate and concrete U-shaped headwall on the waterside (WS) end. Concrete U-shaped headwall on the landside (LS) end. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 510, April 1963, (HLM 2.24) Drawing No. 50-4-3622].						
FS Date: 10/3/2013						

Photo 3 of 3 : UCIP_SP_2018_21763_36980.jpg



HDPE pipe inlet on LS toe.

LM Start	2.23	Rating **	M	Issue No.	934
LM End	2.23	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			40.052063 °	40.052063 °
				-122.150450 °	-122.150450 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:23051 DS_ID:24695 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this crossing. FIELD_STRUCT_DESC: Fiber optics conduit of an unknown size or material through the levee, at an unknown depth. Signage on the landside (LS) visible. FS Date: 10/3/2013					

Photo 1 of 1 : UCIP_SP_2018_23051_39135.jpg



Fiber optic line markers off LS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Elder Creek	Left	3.98	04/04/2018 04/04/2018	Bob Duffey

LM Start	2.28	Rating **	M	Issue No.	935	
LM End	2.28	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			40.052379 °	40.052379 °	
				-122.149534 °	-122.149534 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:23045 DS_ID:24694 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this crossing. FIELD_STRUCT_DESC: 4-inch coated steel gas pipeline through the levee, 3.5 feet below the crown. Pipe visible on upstream side of bridge. FS Date: 10/3/2013						

Photo 1 of 2 : UCIP_SP_2018_23045_39106.jpg



Gasline on upstream side of bridge.

LM Start	2.28	Rating **	M	Issue No.	935 (cont)
LM End	2.28	Issue Type +	En	Location *	

Photo 2 of 2 : UCIP_SP_2018_23045_39105.jpg



Gasline on upstream side of bridge.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Elder Creek	Left	3.98	04/04/2018 04/04/2018	Bob Duffey

LM Start	2.32	Rating **	M	Issue No.	12
LM End	2.32	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			40.052443 °	40.052443 °
				-122.148863 °	-122.148863 °
DWR ID	DWR_NA0019_04_f_2013_12				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0019_81_12_20180305_00007.jpg



View of the slope instability caused by vehicles along the landside slope.

LM Start	2.35	Rating **	M	Issue No.	30
LM End	2.35	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			40.052450 °	40.052450 °
				-122.148352 °	-122.148352 °
DWR ID	DWR_NA0019_04_f_2016_30				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0019_81_30_20180305_00018.jpg



View of the slope instability caused by vehicles along the landside slope.

LM Start	2.37	Rating **	M	Issue No.	31
LM End	2.37	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			40.052451 °	40.052451 °
				-122.147962 °	-122.147962 °
DWR ID	DWR_NA0019_04_f_2016_31				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove prunings from the landside toe.					

Photo 1 of 1 : SP_2018_NA0019_81_31_20180305_00019.jpg



View of the prunings along the landside toe.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Elder Creek	Left	3.98	04/04/2018 04/04/2018	Bob Duffey

LM Start	2.43	Rating **	M	Issue No.	20
LM End	2.43	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			40.052417 °	40.052417 °
				-122.146747 °	-122.146747 °
DWR ID	DWR_NA0019_04_s_2012_20				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0019_81_20_20180305_00013.jpg



View of the slope instability caused by vehicles along the landside slope.

LM Start	2.51	Rating **	M	Issue No.	2
LM End	2.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			40.052872 °	40.052872 °
				-122.145495 °	-122.145495 °
DWR ID	DWR_NA0019_04_s_2012_2				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0019_81_2_20180305_00002.jpg



View of the slope instability caused by vehicles along the landside slope.

LM Start	2.58	Rating **	M	Issue No.	32
LM End	2.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			40.053767 °	40.053767 °
				-122.144719 °	-122.144719 °
DWR ID	DWR_NA0019_04_f_2016_32				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0019_81_32_20180305_00020.jpg



View of the slope instability caused by vehicles along the landside slope.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Elder Creek	Left	3.98	04/04/2018 04/04/2018	Bob Duffey

LM Start	2.63	Rating **	M	Issue No.	15
LM End	2.63	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			40.054337 °	40.054337 °
				-122.144235 °	-122.144235 °
DWR ID	DWR_NA0019_04_s_2015_15				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside toe.					

Photo 1 of 2 : SP_2018_NA0019_81_15_20180305_00009.jpg



View of the prunings along the landside toe.

LM Start	2.63	Rating **	M	Issue No.	15 (cont)
LM End	2.63	Issue Type +	En	Location *	LS

Photo 2 of 2 : SP_2018_NA0019_81_15_20180305_00010.jpg



View of the prunings along the landside toe.

LM Start	2.63	Rating **	M	Issue No.	4
LM End	2.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			40.054352 °	40.054352 °
				-122.144245 °	-122.144245 °
DWR ID	DWR_NA0019_04_s_2012_4				
Comment Code					
DE : Debris					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Elder Creek	Left	3.98	04/04/2018 04/04/2018	Bob Duffey

LM Start	2.83	Rating **	M	Issue No.	916
LM End	2.86	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			40.055596 °	40.055985 °
				-122.141322 °	-122.141385 °
DWR ID	DWR_NA0019_04_s_2012_916				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0019_81_916_20180305_00025.jpg



View of the slope instability caused by vehicles along the waterside slope.

LM Start	3.01	Rating **	C	Issue No.	17
LM End	3.01	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			40.056448 °	40.056448 °
				-122.139302 °	-122.139302 °
DWR ID	DWR_NA0019_04_f_2014_17				
Comment Code					
PR : Prunings					
Inspector Comment					
The prunings was removed from the landside slope and toe.					

No Photos

LM Start	3.01	Rating **	M	Issue No.	10
LM End	3.01	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			40.056388 °	40.056388 °
				-122.139168 °	-122.139168 °
DWR ID	DWR_NA0019_04_s_2012_10				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0019_81_10_20180305_00006.jpg



View of the slope instability caused by vehicles along the landside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Elder Creek	Left	3.98	04/04/2018 04/04/2018	Bob Duffey

LM Start	3.02	Rating **	M	Issue No.	33
LM End	3.02	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			40.056388 °	40.056388 °
				-122.139003 °	-122.139003 °
DWR ID	DWR_NA0019_04_f_2016_33				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	3.04	Rating **	M	Issue No.	34
LM End	3.04	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			40.056353 °	40.056353 °
				-122.138656 °	-122.138656 °
DWR ID	DWR_NA0019_04_f_2016_34				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	3.05	Rating **	M	Issue No.	35
LM End	3.10	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			40.056405 °	40.056935 °
				-122.138438 °	-122.138029 °
DWR ID	DWR_NA0019_04_f_2016_35				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove prunings from the landside toe.					

Photo 1 of 1 : SP_2018_NA0019_81_35_20180305_00021.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Elder Creek	Left	3.98	04/04/2018 04/04/2018	Bob Duffey

LM Start	3.09	Rating **	N	Issue No.	36	
LM End	3.09	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Trim / Thin Trees			40.056825 °		40.056825 °
				-122.138088 °		-122.138088 °
DWR ID	DWR_NA0019_04_f_2016_36					
Comment Code						
T5 : Tree stumps.						
Inspector Comment						
5 tree stumps						

No Photos

LM Start	3.11	Rating **	M	Issue No.	1
LM End	3.13	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			40.057083 °	40.057291 °
				-122.137935 °	-122.137743 °
DWR ID	DWR_NA0019_04_s_2012_1				
Comment Code					
DE : Debris					
Inspector Comment					
Remove concnere blocks, concrete pipes, and concrete stairs from the landside slope.					

Photo 1 of 1 : SP_2018_NA0019_81_1_20180305_00001.jpg



View of the concrete stairways on the slope.

LM Start	3.13	Rating **	M	Issue No.	25
LM End	3.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			40.057350 °	40.057350 °
				-122.137667 °	-122.137667 °
DWR ID	DWR_NA0019_04_f_2015_25				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0019_81_25_20180305_00015.jpg



View of the slope instability caused by vehicles along the landside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Elder Creek	Left	3.98	04/04/2018 04/04/2018	Bob Duffey

LM Start	3.29	Rating **	M	Issue No.	37
LM End	3.29	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			40.057685 °	40.057685 °
				-122.134770 °	-122.134770 °
DWR ID	DWR_NA0019_04_f_2016_37				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	3.31	Rating **	M	Issue No.	38
LM End	3.31	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			40.057590 °	40.057590 °
				-122.134508 °	-122.134508 °
DWR ID	DWR_NA0019_04_f_2016_38				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	3.31	Rating **	M	Issue No.	6
LM End	3.31	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			40.057558 °	40.057558 °
				-122.134417 °	-122.134417 °
DWR ID	DWR_NA0019_04_s_2012_6				
Comment Code					
GA : Garbage					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0019_81_6_20180305_00005.jpg



View of the garbage and metal along the landside slope and toe of the levee.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Elder Creek	Left	3.98	04/04/2018 04/04/2018	Bob Duffey

LM Start	3.40	Rating **	M	Issue No.	39
LM End	3.44	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			40.056546 °	40.055906 °
				-122.133530 °	-122.133294 °
DWR ID	DWR_NA0019_04_f_2016_39				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0019_81_39_20180305_00022.jpg



View of the blackberries along the landside slope blocking visibility and access.

LM Start	3.52	Rating **	A	Issue No.	52
LM End	3.52	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			40.055347 °	40.055347 °
				-122.132130 °	-122.132130 °
DWR ID	DWR_NA0019_04_s_2018_52				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The vegetation was removed from both slopes.					

Photo 1 of 1 : SP_2018_NA0019_81_52_20180405_00080.jpg



View of no vegetation on both slopes.

LM Start	3.66	Rating **	M	Issue No.	21
LM End	3.66	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			40.055735 °	40.055735 °
				-122.129445 °	-122.129445 °
DWR ID	DWR_NA0019_04_s_2015_21				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside toe.					

Photo 1 of 1 : SP_2018_NA0019_81_21_20180305_00014.jpg



View of the prunings along landside toe.

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Elder Creek	Left	3.98	04/04/2018 04/04/2018	Bob Duffey

LM Start	3.69	Rating **	M	Issue No.	7
LM End	3.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			40.055920 °	40.055945 °
				-122.128948 °	-122.128310 °
DWR ID	DWR_NA0019_04_s_2012_7				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2018 Levee Inspection Results

Tehama County Flood Control and Water Conservation District

Waterway			Bank	Unit Miles
Unit No. 05 Elder Creek			Right	3.87
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/4/2018 - 4/4/2018			
DWR Inspector	Bob Duffey			
Accompanied By	Ryan Teubert Tehama County			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elder Creek	Right	3.87	04/04/2018 04/04/2018	Bob Duffey

LM Start	0.11	Rating **	A/W	Issue No.	20
LM End	0.11	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			40.051702 °	40.051702 °
				-122.189922 °	-122.189922 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:21744					
DS_ID:20799					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 5.4 feet below the crown. Flap gate on the waterside (WS) end. Concrete U-shaped headwalls on the WS and landside (LS) ends. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 510, April 1963, (HLM 0.11) Drawing No. 50-4-3622].					
FS Date: 10/3/2013					

Photo 1 of 3 : UCIP_SP_2018_21744_36945.jpg



Concrete headwall on LS toe.

LM Start	0.11	Rating **	A/W	Issue No.	20 (cont)
LM End	0.11	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2018_21744_36944.jpg



Concrete headwall on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elder Creek	Right	3.87	04/04/2018 04/04/2018	Bob Duffey

LM Start	0.11	Rating **	A/W	Issue No.	20 (cont)	
LM End	0.11	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			40.051702 °		40.051702 °
				-122.189922 °		-122.189922 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:21744 DS_ID:20799 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 5.4 feet below the crown. Flap gate on the waterside (WS) end. Concrete U-shaped headwalls on the WS and landside (LS) ends. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 510, April 1963, (HLM 0.11) Drawing No. 50-4-3622]. FS Date: 10/3/2013						

Photo 3 of 3 : UCIP_SP_2018_21744_36943.jpg



Concrete U-shaped headwall on WS slope.

LM Start	0.18	Rating **	M	Issue No.	15
LM End	0.18	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			40.051277 °	40.051277 °
				-122.188905 °	-122.188905 °
DWR ID	DWR_NA0019_05_f_2017_15				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside toe.					

Photo 1 of 1 : SP_2018_NA0019_82_15_20180305_00006.jpg



View of the prunings along the landside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elder Creek	Right	3.87	04/04/2018 04/04/2018	Bob Duffey

LM Start	0.50	Rating **	M	Issue No.	21
LM End	0.50	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			40.050585 °	40.050585 °
				-122.182972 °	-122.182972 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41124 DS_ID:20801 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Debris inside pipe at WS toe needs to be removed as it may prevent proper operation of the flapgate. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 5.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete U-shaped headwalls on the WS and landside (LS) ends. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 510, April 1963, (HLM 0.51) Drawing No. 50-4-3622]. FS Date: 10/3/2013					

LM Start	0.50	Rating **	M	Issue No.	21 (cont)
LM End	0.50	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2018_41124_36953.jpg



Concrete headwall on WS toe.

Photo 2 of 3 : UCIP_SP_2018_41124_36952.jpg



Inlet at LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elder Creek	Right	3.87	04/04/2018 04/04/2018	Bob Duffey

LM Start	0.50	Rating **	M	Issue No.	21 (cont)	
LM End	0.50	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			40.050585 °	40.050585 °	
				-122.182972 °	-122.182972 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:41124 DS_ID:20801 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Debris inside pipe at WS toe needs to be removed as it may prevent proper operation of the flapgate. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 5.2 feet below the crown. Flap gate on the waterside (WS) end. Concrete U-shaped headwalls on the WS and landside (LS) ends. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 510, April 1963, (HLM 0.51) Drawing No. 50-4-3622]. FS Date: 10/3/2013						

Photo 3 of 3 : UCIP_SP_2018_41124_36951.jpg



Concrete headwall at LS toe.

LM Start	0.94	Rating **	M	Issue No.	8
LM End	1.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			40.051360 °	40.052361 °
				-122.175063 °	-122.173450 °
DWR ID	DWR_NA0019_05_f _ 2015_8				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Repair rodent hole on landside slope.					

Photo 1 of 1 : SP_2018_NA0019_82_8_20180305_00003.jpg



View of the rodent holes along the landside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elder Creek	Right	3.87	04/04/2018 04/04/2018	Bob Duffey

LM Start	1.57	Rating **	A	Issue No.	16
LM End	1.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			40.050808 °	40.050808 °
				-122.164423 °	-122.164423 °
DWR ID	DWR_NA0019_05_s_2018_16				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The vegetation was removed from both slopes.					

Photo 1 of 1 : SP_2018_NA0019_82_16_20180405_00020.jpg



View of no vegetation on both slopes.

LM Start	2.41	Rating **	M	Issue No.	14
LM End	2.41	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			40.051274 °	40.051274 °
				-122.150113 °	-122.150113 °
DWR ID	DWR_NA0019_05_f_2016_14				
Comment Code					
DE : Debris					
Inspector Comment					
Pile of broken concrete pipes on the waterside.					

Photo 1 of 1 : SP_2018_NA0019_82_14_20180305_00005.jpg



View of the broken pipes along the waterside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elder Creek	Right	3.87	04/04/2018 04/04/2018	Bob Duffey

LM Start	2.41	Rating **	M	Issue No.	22
LM End	2.41	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			40.051336 °	40.051336 °
				-122.149991 °	-122.149991 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:23052 DS_ID:24692 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this crossing. FIELD_STRUCT_DESC: Steel fiber optics conduit of an unknown size through the levee, at an unknown depth. Sign markers on the landside (LS) shoulder. FS Date: 10/3/2013 9:02:00 AM					

Photo 1 of 2 : UCIP_SP_2018_23052_39137.jpg



Fiber optic line markers on LS shoulder.

LM Start	2.41	Rating **	M	Issue No.	22 (cont)
LM End	2.41	Issue Type +	En	Location *	

Photo 2 of 2 : UCIP_SP_2018_23052_39136.jpg



Fiber optic line markers on LS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elder Creek	Right	3.87	04/04/2018 04/04/2018	Bob Duffey

LM Start	2.47	Rating **	M	Issue No.	23
LM End	2.47	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			40.051667 °	40.051667 °
				-122.149033 °	-122.149033 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:23044 DS_ID:24693 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this crossing. FIELD_STRUCT_DESC: 4-inch steel gas pipeline through the levee, 2.5 feet below the crown. Pipe visible on upstream side of bridge. FS Date: 10/3/2013					

LM Start	2.47	Rating **	M	Issue No.	23 (cont)
LM End	2.47	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_23044_39104.jpg



Gasline on upstream side of bridge.

Photo 2 of 3 : UCIP_SP_2018_23044_39103.jpg



Gasline on upstream side of bridge.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elder Creek	Right	3.87	04/04/2018 04/04/2018	Bob Duffey

LM Start	2.47	Rating **	M	Issue No.	23 (cont)	
LM End	2.47	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			40.051667 °	40.051667 °	
				-122.149033 °	-122.149033 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:23044 DS_ID:24693 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this crossing. FIELD_STRUCT_DESC: 4-inch steel gas pipeline through the levee, 2.5 feet below the crown. Pipe visible on upstream side of bridge. FS Date: 10/3/2013						

Photo 3 of 3 : UCIP_SP_2018_23044_39102.jpg



Gasline on upstream side of bridge.

LM Start	2.65	Rating **	M	Issue No.	2
LM End	2.70	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			40.051778 °	40.052243 °
				-122.145745 °	-122.144825 °
DWR ID	DWR_NA0019_05_s_2012_2				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0019_82_2_20180305_00001.jpg



View of the landscaping along the slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elder Creek	Right	3.87	04/04/2018 04/04/2018	Bob Duffey

LM Start	3.01	Rating **	M	Issue No.	1
LM End	3.03	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			40.054730 °	40.054970 °
				-122.140578 °	-122.140238 °
DWR ID	DWR_NA0019_05_s_2016_1				
Comment Code					
Inspector Comment					
2006 - Mass failure of this bank due to being along the outside of a bend where erosion and undercutting are the greatest. Low flow is being forced into the toe of this bank by point bar on the opposite side of the creek. 2011 - Toe of the bank continues to be undercut. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: ELC_3-0_R]					

No Photos

LM Start	3.12	Rating **	M	Issue No.	11
LM End	3.12	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			40.055632 °	40.055607 °
				-122.138910 °	-122.138868 °
DWR ID	DWR_NA0019_05_s_2012_11				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	3.12	Rating **	M	Issue No.	17
LM End	3.12	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			40.055500 °	40.055500 °
				-122.138841 °	-122.138841 °
DWR ID	DWR_NA0019_05_f_2016_17				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elder Creek	Right	3.87	04/04/2018 04/04/2018	Bob Duffey

LM Start	3.30	Rating **	M	Issue No.	9
LM End	3.76	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			40.056831 °	40.054862 °
				-122.136365 °	-122.129279 °
DWR ID	DWR_NA0019_05_s _ 2012_9				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	3.35	Rating **	U	Issue No.	10
LM End	3.35	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			40.056875 °	40.056875 °
				-122.135349 °	-122.135349 °
DWR ID	DWR_NA0019_05_s _ 2016_10				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Erosion rut running down LS slope from crown to toe					

Photo 1 of 1 : SP_2018_NA0019_82_10_20180305_00004.jpg



View of the erosion along the landside slope.

LM Start	3.38	Rating **	U	Issue No.	7
LM End	3.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			40.056727 °	40.056727 °
				-122.134888 °	-122.134888 °
DWR ID	DWR_NA0019_05_s _ 2016_7				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0019_82_7_20180305_00002.jpg



View of the erosion along the landside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Tehama County Flood Control and Water Conservation District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Elder Creek	Right	3.87	04/04/2018 04/04/2018	Bob Duffey

LM Start	3.69	Rating **	M	Issue No.	19
LM End	3.69	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			40.054604 °	40.054604 °
				-122.130490 °	-122.130490 °
DWR ID	DWR_NA0019_05_f_2016_19				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0019_82_19_20180305_00008.jpg



View of the erosion along the landside slope.

LM Start	3.76	Rating **	U	Issue No.	18
LM End	3.76	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			40.054829 °	40.054829 °
				-122.129329 °	-122.129329 °
DWR ID	DWR_NA0019_05_f_2016_18				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : SP_2018_NA0019_82_18_20180305_00007.jpg



View of the erosion along the landside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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